

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
1950A1

In Re Application Of: **Anil Kumar; Peter C. Foller**

Serial No.
10/757,267

Filing Date
01/14/2004

Examiner
Not Assigned

Group Art Unit

Title: **POLARIZING DEVICES AND METHODS OF MAKING THE SAME**

Address to:

**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
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POLARIZING DEVICES AND METHODS OF MAKING THE SAME

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☐ The Director is hereby authorized to charge and credit Deposit Account No. _____ as described below.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☐ Charge any additional fee required.

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I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F:

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Nadine M. Kennelly

Signature of Person Mailing Correspondence

Nadine M. Kennelly

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Frank P. Mallak
Signature

Dated: February 9, 2004

Frank P. Mallak, PA
Registration No. 36,590
Agent For Applicant

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

CC:

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/757,267		
		Filing Date	January 14, 2004		
		First Named Inventor	Kumar et al.		
		Art Unit			
		Examiner Name	Not Assigned		
Sheet	1	of	4	Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		3,361,706	01-02-1968	Meriwether et al.	
		4,166,043	08-28-1979	Uhlmann et al.	
		4,367,170	01-04-1983	Uhlmann et al.	
		4,279,474	07-21-1981	Belgorod	
		4,556,605	12-03-1985	Mogami et al.	
		4,756,973	07-12-1988	Sakagami et al.	
		4,873,026	10-10-1989	Behre et al.	
		4,873,029	10-10-1989	Blum	
		4,931,220	06-05-1990	Haynes et al.	
		5,130,353	07-14-1992	Fischer et al.	
		5,185,390	02-09-1993	Fischer et al.	
		5,389,698	2-14-1995	Chigrinov et al.	
		5,602,661	2-11-1997	Schadt et al.	
		5,645,767	07-08-1997	Van Gemert	
		5,658,501	08-19-1997	Kumar et al.	
		5,698,141	12-16-1997	Kumar	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 89/11674	11-30-1989	Plessey Overseas Limited		
		WO 00/77559	12-21-2000	PPG Industries, Inc.		
		WO 01/02449	01-11-2001	PPG Industries, Inc.		
		WO 01/55960	8-2-2001	Rolic AG		
		WO 02/29489	4-11-2002	Alphamicro, Inc.		
		WO 02/058921	8-1-2002	Alcat, Incorporated		
		WO 03/019270	3-6-2003	Kim, Su-Jin		
		EP 1 203 967 A1	5-8-2002	Rolic AG		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington. NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington.

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		Filing Date	January 14, 2004
		First Named Inventor	Kumar et al.
		Art Unit	
		Examiner Name	Not Assigned
Sheet	2	of	4
		Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		5,723,072	03-03-1998	Kumar	
		5,746,949	5-5-1998	Shen et al.	
		5,962,617	10-05-1999	Slagel	
		6,022,497	02-08-2000	Kumar	
		6,025,026	02-15-2000	Smith et al.	
		6,060,001	05-09-2000	Welch et al.	
		6,113,814	09-05-2000	Gemert et al.	
		6,150,430	11-21-2000	Walters et al.	
		6,153,126	11-28-2000	Kumar	
		6,187,444	02-13-2001	Bowles, III et al.	
		6,239,778	5-29-2001	Palffy-Muhoray et al.	
		6,245,399	6-12-2001	Sahouani et al.	
		6,268,055	07-31-2001	Walters et al.	
		6,338,808	1-15-2002	Kawata et al.	
		6,432,544	08-13-2002	Stewart et al.	
		6,433,043	08-13-2002	Misura et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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U.S. PATENT DOCUMENTS[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/APTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/757267		
		Filing Date	January 14, 2004		
		First Named Inventor	Kumar et al.		
		Art Unit			
		Examiner Name	Not Assigned		
Sheet	4	of	4	Attorney Docket Number	1905A1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		THOMAS BACHELS, et al., "Novel Photo-Aligned LC-Polymer Wide-View Film for TN Displays", <u>Eurodisplay</u> , (2002), pgs. 183-186.	
		HUBERT SEIBERLE, CARSTEN BENECKE and THOMAS BACHELS, "Invited Paper: Photo-Aligned Anisotropic Optical Thin Films," <u>SID 03 Digest</u> , SID (2003), pgs. 1162 - 1165.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language translation is attached.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 2873	:	
Examiner: Jessica T. Stultz	:	
In re Application of:	:	POLARIZING DEVICES AND
Kumar et al.	:	METHODS OF MAKING THE
	:	SAME
Serial No.: 10/757,267	:	
Filing Date: January 14, 2004	:	Confirmation No: 3600

SECOND SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicants, in accordance with the duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advise the United States Patent and Trademark Office ("USPTO") of the references listed on the accompanying form PTO/SB/08A (substitute for form 1449A/PTO) "Information Disclosure Statement." Copies of the cited foreign patent documents are enclosed herewith.

Applicants note that, under 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Applicants further note that the filing of this Information Disclosure Statement is not an admission that the references cited herein constitute prior art with respect to the above-captioned application.

Applicants have enclosed herewith the fee according to 37 C.F.R. § 1.17(p) as required for consideration of the Information Disclosure Statement under 37 C.F.R. § 1.97(c)(2). The Commissioner is authorized to charge any additionally required fees deemed necessary for consideration of this Information Disclosure Statement to Account No. 16-2025.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Linda Pingitore", written over a horizontal line.

Linda Pingitore
Reg. No. 30,414
Phone: 412.434.3704
Fax: 412.434.4292

Pittsburgh, Pennsylvania 15272
October 11, 2005

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/757,267		
		Filing Date	01-14-2004		
		First Named Inventor	Kumar et al.		
		Art Unit	2873		
		Examiner Name	Stultz		
Sheet	1	of	1	Attorney Docket No.	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		2005/0146680 A1	07-07-2005	Muisener et al.	
		2005/0012998 A1	01-20-2005	Kumar et al.	
		2005/0004361 A1	01-06-2005	Kumar et al.	
		2005/0003107 A1	01-06-2005	Kumar et al.	
		6,245,399 B1	06-12-2001	Sahouani et al.	
		6,049,428	04-11-2000	Khan et al.	
		5,903,330	05-11-1999	Fünfschilling et al.	
		4,977,028	12-11-1990	Goepfert et al.	
		4,865,668	09-12-1989	Goepfert et al.	
		4,648,925	03-10-1987	Goepfert et al.	
		2,544,659	03-13-1951	Dreyer	
		2,481,830	09-13-1949	Dreyer	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 2005/085912 A1	09-15-2005	Essilor International		
		WO 2005/084826 A1	09-15-2005	Essilor International		

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	PATENT APPLICATION
Anil Kumar et al.	:	
Serial No.: 10/757,267	:	Group Art Unit: 1712
Filed: January 14, 2004	:	Examiner: Jessica Stultz
Title: POLARIZING DEVICES AND METHODS OF MAKING THE SAME	:	Docket No: 1905A1

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

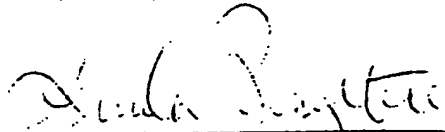
Mail Stop Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The documents listed on the attached Form PTO-1449 are brought to the attention of the United States Patent and Trademark Office with respect to the application identified above in accordance with the provisions of 37 CFR 1.56, 1.97, and 1.98. Also, documents cited in the International Search Report for the related International Application No. PCT/US2004/037516 are included. Copies of the International Search Report and the documents listed are enclosed herewith.

It is requested that the Examiner consider these documents and that it be made of record in the application.

Respectfully submitted,



LINDA PINGITORE, ESQ.
Registration No. 30,414
Telephone No. (412) 434-3704
Facsimile No. (412) 434-4292

Pittsburgh, Pennsylvania
April 19, 2005

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/757,267		
		Filing Date	January 14, 2004		
		First Named Inventor	Anil Kumar et al.		
		Art Unit	1712		
		Examiner Name	Jessica Stultz		
Sheet	1	of	5	Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		2,319,826	05-24-1943	Land	
		2,334,446	11-16-1943	Serrell	
		2,475,921	07-12-1949	Smith	
		3,276,316	10-04-1966	Makas	
		3,653,863	04-04-1972	Araujo et al.	
		4,039,254	08-02-1977	Harsch	
		4,043,637	08-23-1977	Hovey	
		4,190,330	02-26-1980	Berberman	
		4,549,894	10-29-1985	Araujo et al.	
		4,637,896	01-20-1987	Shannon	
		4,728,173	03-01-1988	Toth	
		4,756,605	07-12-1988	Okada et al.	
		4,810,433	03-07-1989	Takayanagi et al.	
		4,838,673	06-13-1989	Richards et al.	
		4,863,763	09-05-1989	Takeda et al.	
		4,974,941	12-04-1990	Gibbons et al.	
		5,204,850	06-18-1991	Broer et al.	
		5,067,795	11-26-1991	Senatore	
		5,073,294	12-17-1991	Shannon et al.	
		5,155,607	10-13-1992	Inoue et al.	
		5,180,470	01-19-1993	Smith et al.	
		5,189,448	02-23-1993	Yaguchi	
		5,202,053	04-13-1993	Shannon	
		5,247,377	09-21-1993	Omeis et al.	
		5,464,669	11-07-1995	Kang et al.	
		5,608,567	03-04-1997	Grupp	
		5,644,416	07-01-1997	Morikawa et al.	
		5,943,104	08-24-1999	Moddel et al.	

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				First Named Inventor	Anil Kumar et al.
				Art Unit	1712
				Examiner Name	
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		Number - Kind Code ² (if known)			
		6,160,597	12-12-2000	Schadt et al.	
		6,284,418 B1	09-04-2001	Trantolo	
		6,334,681 B1	01-01-2002	Perrott et al.	
		6,369,869 B2	04-09-2002	Schadt et al.	
		6,717,644 B2	04-06-2004	Schadt et al.	
		US2002/0090516A1	07-11-2002	Loshak et al.	
		US2002/0180916A1	12-05-2002	Schadt et al.	

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		Filing Date	January 14, 2004	
		First Named Inventor	Anil Kumar et al.	
		Art Unit	1712	
Examiner Name				
Sheet	3	5	Attorney Docket Number	1905A1

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
		EP 0 397 263 B1		12.21.1994	N.V. Philips' Gloeilampenfabrieken		
		EP 0 331 233 B1		04.23.1997	Philips Electronics N.V.		
		EP 0 488 164 A2		26.11.1991	Hitachi, Ltd.		
		EP 0 543 678 A1		05.26.1993	Nippon Oil Co., Ltd		
		EP 0 772 069 A1		23.10.1996	Rolic AG		
		EP 1 162 482 A2		12.12.2001	Mitsubishi Gas Chemical Company, Inc.		
		EP 1 394 595 A1		03.03.2004	Mitsubishi Gas Chemical Company, Inc.		
		JP 59 135428 A (Abstract)		08.03.1984	Toshiba Corp.		
		JP 03 200218 A (Abstract)		09.02.1991	Toyota Central Research & Development Lab Inc.		
		JP 03 200118 A (Abstract)		09.02.1991	Toyota Central Research & Development Lab Inc.		
		GB 2 169 417 A		07.09.1986	Olympus Optical Co. Ltd. Japan		
		GB 583,842		01.01.1947	International Polaroid Corporation		
		WO 97/22894		26.06.1997	Sola International Holdings Ltd.		
		WO 98/19207 (Abstract)		05.07.1998	Carl-Zeiss-Siftung		
		WO 00/19252		04.06.2000	Intel Corporation		
		WO 03/032066 A1		17.04.2003	E-Vision LLC		

Examiner Signature		Date Considered	
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		Application Number	10/757,267	
		Filing Date	January 14, 2004	
		First Named Inventor	Anil Kumar et al.	
		Art Unit	1712	
		Examiner Name		
Sheet	4	5	Attorney Docket Number	1905A1

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		KVASNIKOV, E.D., KOZENKOV, V.M., AND BARACHEVSKII, V.A., "Birefringence in Polyvinylcinnamate Films Induced By Polarized Light," <u>Doklady Akademii nauk SSSR</u> , Vol. 237, No. 3, USSR pp. 633-636 (1977).	X
		KOZENKOV, V.M., CHIGRINOV, V.G., AND KWOK, H.S. "Photoanisotropic Effects in Poly (Vinyl-Cinnamate) Derivatives and Their Applications," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 409, pp. 251-267 (2004).	
		HIKMET, R.A.M and de WITZ, C., "Gel Layer for Inducting Adjustable Pretilt Angles in Liquid Crystal Systems," <u>J. App. Phys.</u> Vol. 70, No. 3, pp. 1265-1266 (August 1991).	
		SCHADT, Martin et al. "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers," <u>Jpn. J. Appl. Phys.</u> Vol. 31, No. 7, pp. 2155- 2164 (July 1992).	
		SCHADT, Martin "Optics and Applications of Photo-Aligned Liquid Crystalline Surfaces," <u>Nonlinear Optics</u> , Vol. 25, pp.1-12 (2000).	
		SCHADT, Martin "Liquid Crystal Displays and Novel Optical Thin Films Enabled by Photo-Alignment," <u>Mol. Cryst. Liq. Cryst.</u> Vol. 364, pp. 151-169 (2001).	
		DYADYUSHA, A.G. et al. "Light-Induced Planar Orientation of a Nematic Liquid Crystal on an Anisotropic Surface without Microrelief," <u>Ukr. Fiz. Zhurn.</u> , (Ukraine), Vol. 35, No. 5, pp. 1059-1062.	X

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		Filing Date	January 14, 2004		
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		CASTELLANO, Joseph A. "Surface Anchoring of Liquid Crystal Molecules on Various Substrates," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 94, pp. 33-41 (1983).	
		HUANG, D.D. et al. "Effect of Aligning Layer Thickness on Photo-Aligned Ferroelectric Liquid Crystal Displays," <u>Proceedings of the 6th Chinese Optoelectronics Symposium, Hong Kong China, IEEE (New York)</u> , pp. 231-234 (2003).	
		CHIGRINOV, V.G. and KOZENKOV, V.M., "New Results on Liquid Crystal Alignment by Photopolymerization," <u>Proceedings of the SPIE- The International Society for Optical Engineering</u> , SPIE Vol. 2409 pp. 130-140 (1995).	

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